

Name: _____

at1121exam_practice: Radicals and Squares (v603)

Question 1

Simplify the radical expressions.

$$\sqrt{20}$$

$$\sqrt{18}$$

$$\sqrt{45}$$

Question 2

Find all solutions to the equation below:

$$2(x + 8)^2 - 4 = 68$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 14x = 95$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 4x^2 + 40x + 93$$

Express the function in **vertex form** and identify the **location** of the vertex.